

244



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

**M. NOROOZIAN *et al.***

Application No. 10/501,076  
**Confirmation No. 3114**

Filed: July 9, 2004

For: EQUIPMENT AND METHOD  
FOR EXCHANGING POWER, IN  
SHUNT CONNECTION, WITH  
AN ELECTRIC POWER  
NETWORK, AND USE OF SUCH  
EQUIPMENT

Art Unit: 2838

Examiner: Not Yet Assigned

Atty. Docket No. 43315-205324

Customer No.

**\*26694\***  
**26694**  
PATENT TRADEMARK OFFICE

**REQUEST FOR CORRECTED FILING RECEIPT**

***Mail Stop: Patent Applications***

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This is to inform the U.S. Patent and Trademark Office that errors appear on the Filing Receipt for the above-identified application.

In the ***Applicant(s)*** section of the Filing Receipt, please note that two of the three inventors have been inadvertently omitted by the Patent Office. Therefore, please replace the following in the Applicant section of the Filing Receipt, as evidenced by the attached Declaration filed with the Patent Office on January 27, 2005:

(

**--Mojtaba Noroozian, Västerås, SWEDEN;**  
**Bo Bijlenga, Åmål SWEDEN;**  
**Björn THORVALDSSON, Kolbäck, SWEDEN.--**

In the ***Foreign Applications*** section of the Filing Receipt, the Swedish Application should be corrected to -- SWEDEN 0200050-3 --, as evidenced by the attached cover sheet of the

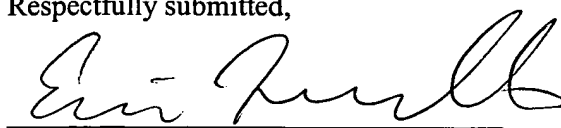
Application No. 10/501,076  
Applicants: Mojtaba NOROOZIAN *et al.*

corresponding PCT Application. A copy of the Filing Receipt, with the changes marked in red, is attached herewith.

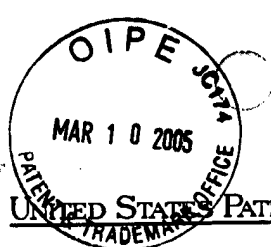
It is believed that no fee is due for the submission of this Request. However, if such fees are deemed necessary, please charge said fees to our Deposit Account No. 22-0261. A duplicate copy of this Request is also attached.

Respectfully submitted,

Date: 3/10/05

A handwritten signature in black ink, appearing to read "Eric Franklin", written over a horizontal line.

Eric J. Franklin  
Registration No. 37,134  
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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/501,076	01/27/2005	2838	1210	43315-205324 <i>EQT</i>	3	15	2

CONFIRMATION NO. 3114

26694

VENABLE, BAETJER, HOWARD AND CIVILETTI, LLP  
 P.O. BOX 34385  
 WASHINGTON, DC 20043-9998

## FILING RECEIPT



\*OC000000015242705\*

Date Mailed: 02/23/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

*Mojtaba NOROOZIAN, Vasteras, SWEDEN*  
*Bo Bijlenga, Amal, SWEDEN;*

*Djorn THORVALDSSON,*  
*Kolback, SWEDEN*

Power of Attorney:

Eric Franklin-37134

*Corr filing Receipt*  
 DOCKETED

*43315-*  
 CLIENT/MATTER # *205324* ATTY *EQT*  
 DUE DATE *Mar. 25, 2005*  
 FINAL DEADLINE  
 DKTED BY *[initials]*

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/SE03/00015 01/07/2003

Foreign Applications

*0200050-3*  
 SWEDEN 020050-3 01/09/2002

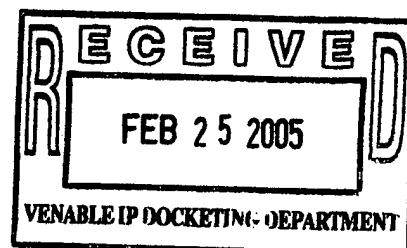
Projected Publication Date: 06/02/2005

Non-Publication Request: No

Early Publication Request: No

Title

Equipment and method for exchanging power, in shunt connection, with an electric power



network, and use of such equipment

**Preliminary Class**

323

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**LICENSE FOR FOREIGN FILING UNDER  
Title 35, United States Code, Section 184  
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
21 August 2003 (21.08.2003)

PCT

(10) International Publication Number  
**WO 03/069757 A1**

(51) International Patent Classification: **H02J 3/18**,  
G05F 1/70

NOROOZIAN, Mojtaba [SE/SE]; Sportfiskargatan 6,  
S-723 49 Västerås (SE). THORVALDSSON, Björn  
[SE/SE]; Agnegatan 16, S-730 40 Kolbäck (SE).

(21) International Application Number: PCT/SE03/00015

(22) International Filing Date: 7 January 2003 (07.01.2003)

(74) Agent: ABB GROUP SERVICES CENTER AB; Legal & Compliance/Intellectual Property, S-721 78 Västerås (SE).

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:  
0200050-3 9 January 2002 (09.01.2002) SE

(71) Applicant (for all designated States except US): ABB AB  
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(81) Designated States (national): AE, AG, AI, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC, EE (utility model), EE, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

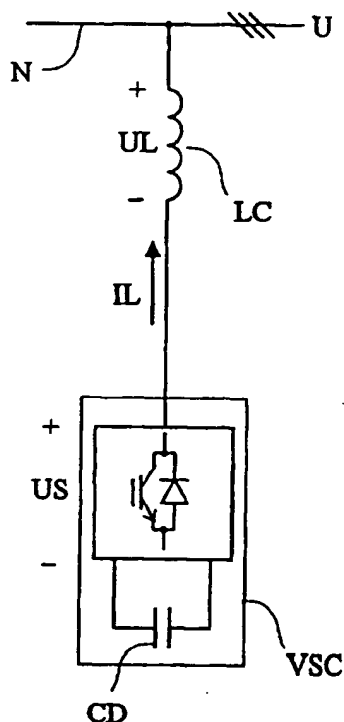
(72) Inventors; and

(75) Inventors/Applicants (for US only): BIJLENGA, Bo [SE/SE]; Lilla Ringvägen 2, S-662 33 Åmål (SE).

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: EQUIPMENT AND METHOD FOR EXCHANGING POWER, IN SHUNT CONNECTION, WITH AN ELECTRIC POWER NETWORK, AND USE OF SUCH EQUIPMENT



(57) Abstract: Equipment for exchanging power, in shunt connection, with an electric power network (N) comprising a reactive impedance element (C, LC) and a voltage source converter (VSC) for mutual connection in series. The power network has a nominal voltage ( $U_n$ ) of a fundamental frequency ( $f$ ) and a given phase position. The converter is intended for generating a fundamental-tone voltage (US) within a control range (A) which limits the amplitude of the fundamental-tone voltage. The control range limits the amplitude of the fundamental-tone voltage to a value which is lower than the nominal voltage of the power network and comprises generation of a reactive component ( $US_r$ ) of the fundamental-tone voltage with a phase position ( $\phi$ ) that either coincides with the phase position for the voltage of the power network, or that deviates by  $180^\circ$  electrically from the phase position for the voltage of the power network.

WO 03/069757 A1

124651

Venable Filing Number



Attorney/LAA:

EJF/trs

PTO Due Date:

February 6, 2005

Date Filed:

January 27, 2005

TM Official

Gazette Date:

Atty. Docket No: 43315-205324

Re: Mojtaba NOROOZIAN et al.

Application No: 10/501,076

Appl'n Filing

Date:

July 9, 2004

Patent No.:

Issue Date:

Trademark:

Trademark

Reg. No:

Opposition/Cancellation

No:

The following items were received from Venable, Washington, D.C., by the U.S. Patent &amp; Trademark Office:

U.S. PTO FEES ENCLOSED☐ Transmittal Sheet

Filing Fee)

☐ Fee Transmittal Letter☐ NEW U.S. PROVISIONAL APPLICATION☐ RESPONSE TO NOTIFICATION OF MISSING REQUIREMENTS, ALONG WITH☒ COPY OF PTO NOTICE DATED December 6, 2004☒ INVENTOR DECLARATION☐ U.S. National Stage Application of PCT Application☐ English Translation of Application, claims and abstract☐ New U.S. TM Application (specimens)☐ Rule 53(d) Continued Prosecution Application☐ Substitute Specification☐ Rule 53(b) Continuation or Divisional Application (attach copy of specification, claims, drawings & declaration)☐ Priority Document-Cert. Copy of Appln.#: ; Country☐ Date Filed:☐ Request for Continued Examination (RCE) under 37 CFR 1.114☐ Request for Reconsideration☐ Application Data Sheet☒ Assignment w/Cover Sheet☒ IDS w/ PTO SB/08 a/k/a PTO Form-1449 (6 Reference)☐ AMENDMENT and RESPONSE☐ Amendment/ ☐ Preliminary Amendment☐ Petition For Extension Of Time☐ Notice of Appeal☐ Appeal Brief (in triplicate)☐ Reply Brief (in triplicate)/ ☐ Request for Oral Hearing☐ Confirmation of Hearing Petition☐ Issue Fee Transmittal☐ Certificate of Correction☐ Maintenance Fee Transmittal☐ Revocation and Power of Attorney☐ Response to Notice to File Missing Parts, along with copy of the Notice☐ Response to Notice to File Missing Requirements☐ Response to Restriction Requirement☐ Petition to Revive☐ Sequence Listing - CDR Endorsed? ☐ Yes ☐ No☐ Status Inquiry☐ Request for Non-Publication☐ Request to Rescind Non-Publication Request☐ Notice of Opposition (Please list all documents in Other section)

40.00

Recordation/Indexing Fee

IDS Fee

Extension Fee

Notice of Appeal Fee

Brief on Appeal Fee

Oral Hearing Request Fee

Petition Fee

Issue Fee

Publication Fee

Maintenance Fee

TM Statement of Use

8 Affidavit Fee

8 and 15 Affidavit

TM Renewal Application Fee

Notice of Opposition Fee

TM Extension of Time Fee

\$ 40.00

Total Fees Paid

☐

Check Number Attached

☒

Charge Deposit Account No. 22-0261\*

☒ Yes ☐ No

Attorney Docket: **43315-205324****8881US**

**DECLARATION FOR UNITED STATES PATENT APPLICATION,  
POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled EQUIPMENT AND METHOD FOR EXCHANGING POWER, IN SHUNT CONNECTION, WITH AN ELECTRIC POWER NETWORK, AND USE OF SUCH EQUIPMENT, the specification of which

[ ] is attached hereto.

[ ] was filed on \_\_\_\_\_, as Application No. \_\_\_\_\_.

[X] was filed under the Patent Cooperation Treaty on 7 January 2003, and given Application No. PCT/SR03/00015 the United States of America having been designated.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a).

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) of §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed
Sweden	0200050-3	9 January 2002	Yes

I HEREBY CLAIM the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

U.S. Patent Application Number	PCT Patent Application Number	Patent Filing Date	Parent Patent Number
	PCT/SR02/01844	9 October 2002	

I hereby appoint the registered attorneys and agents of VENABLE LLP associated with the following customer number to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

**26694**

U.S. PATENT AND TRADEMARK OFFICE

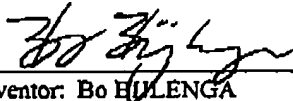
VENABLE LLP is located at 575 7<sup>th</sup> Street, NW, Washington, DC 20004-1601, Telephone: (202) 344-4000, Telefax: (202) 344-8300. Address all correspondence to VENABLE LLP, Post Office Box 34385, Washington,

**Telefax:** (202) 344-8300. **Address all correspondence to** VENABLE LLP, Post Office Box 34385, Washington, D.C. 20043-9998.

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

2005-01-21

First/Joint Inventor: Bo HULENGA

Citizenship: Sweden

Residence and Post Office Address: Lilla Ringvägen 2, S-662 33 Åmål, Sweden

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

First/Joint Inventor: Mojtaba NOROOZIAN

Citizenship: Sweden

Residence and Post Office Address: Sportfiskargatan 6, S-723 49 Västerås, Sweden

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

First/Joint Inventor: Björn THORVALDSSON

Citizenship: Sweden

Residence and Post Office Address: Agnegatan 16, S-730 40 Kolbäck, Sweden





D.C. 20043-9998.

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

First/Joint Inventor: Bo BULENGA

Citizenship: Sweden

Residence and Post Office Address: Lilla Ringvägen 2, S-662 33 Åmål, Sweden

Signature: M. Noroozian Date: 25/1 2005

First/Joint Inventor: Mojtaba NOROOZIAN

Citizenship: Sweden

Residence and Post Office Address: Sportfiskargatan 6, S-723 49 Västerås, Sweden

Signature: B. Thorvaldsson Date: 25/1 2005

First/Joint Inventor: Björn THORVALDSSON

Citizenship: Sweden

Residence and Post Office Address: Agnegatan 16, S-730 40 Kolbäck, Sweden